



<110> INCYTE GENOMICS, INC.
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YUE, Henry; ARVIZU, Chandra S.
BAUGHN, Mariah R.; BATRA, Sajeev

<120> HUMAN CHAPERONE PROTEINS

<130> PF-0595 USN

<140> US 09/787,678

<141> To Be Assigned

<150> PCT/US99/22027

<151> 1999-09-22

<150> US 60/183,022

<151> 1998-09-22

<150> US 09/158,642

<151> 1998-09-22

<150> US 09/294,698

<151> 1999-04-19

<150> US 60/172,232

<151> 1999-04-19

<150> US 09/233,291

<151> 1999-01-19

<150> US 60/172,216

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<160> 27

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<210> 1

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<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1556139CD1

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Arg	Cys	Leu	Gly	Ser	Gly	Ile	Gln	Phe	Leu	Ser	Ser	His	Asn	Leu
				20					25					30
Pro	His	Gly	Ser	Thr	Tyr	Gln	Met	Arg	Arg	Pro	Gly	Gly	Glu	Leu
				35					40					45
Pro	Leu	Ser	Lys	Ser	Tyr	Ser	Ser	Gly	Asn	Arg	Lys	Gly	Phe	Leu
				50					55					60
Ser	Gly	Leu	Leu	Asp	Asn	Val	Lys	Gln	Glu	Leu	Ala	Lys	Asn	Lys
				65					70					75
Glu	Met	Lys	Glu	Ser	Ile	Lys	Lys	Phe	Arg	Asp	Glu	Ala	Arg	Arg
				80					85					90
Leu	Glu	Glu	Ser	Asp	Val	Leu	Gln	Glu	Ala	Arg	Arg	Lys	Tyr	Lys

	95		100		105
Thr Ile Glu Ser	Glu Thr Val Arg Thr	Ser Glu Val Leu Arg Lys			
	110		115		120
Lys Leu Gly Glu	Leu Thr Gly Thr Val	Lys Glu Ser Leu His Glu			
	125		130		135
Val Ser Lys Ser	Asp Leu Gly Arg Lys	Ile Lys Glu Gly Val Glu			
	140		145		150
Glu Ala Ala Lys	Thr Ala Lys Gln Ser	Ala Glu Ser Val Ser Lys			
	155		160		165
Gly Gly Glu Lys	Leu Gly Arg Thr Ala	Ala Phe Arg Ala Leu Ser			
	170		175		180
Gln Gly Val Glu	Ser Val Lys Lys Glu	Ile Asp Asp Ser Val Leu			
	185		190		195
Gly Gln Thr Gly	Pro Tyr Arg Arg Pro	Gln Arg Leu Arg Lys Arg			
	200		205		210
Thr Glu Phe Ala	Gly Asp Lys Phe Lys	Glu Glu Lys Val Phe Glu			
	215		220		225
Pro Asn Glu Glu	Ala Leu Gly Val Val	Leu His Lys Asp Ser Lys			
	230		235		240
Trp Tyr Gln Gln	Trp Lys Asp Phe Lys	Glu Asn Asn Val Val Phe			
	245		250		255
Asn Arg Phe Phe	Glu Met Lys Met Lys	Tyr Asp Glu Ser Asp Asn			
	260		265		270
Ala Phe Ile Arg	Ala Ser Arg Ala Leu	Thr Asp Lys Val Thr Asp			
	275		280		285
Leu Leu Gly Gly	Leu Phe Ser Lys Thr	Glu Met Ser Glu Val Leu			
	290		295		300
Thr Glu Ile Leu	Arg Val Asp Pro Ala	Phe Asp Lys Asp Arg Phe			
	305		310		315
Leu Lys Gln Cys	Glu Asn Asp Ile Ile	Pro Asn Val Leu Glu Ala			
	320		325		330
Met Ile Ser Gly	Glu Leu Asp Ile Leu	Lys Asp Trp Cys Tyr Glu			
	335		340		345
Ala Thr Tyr Ser	Gln Leu Ala His Pro	Ile Gln Gln Ala Lys Ala			
	350		355		360
Leu Gly Leu Gln	Phe His Ser Arg Ile	Leu Asp Ile Asp Asn Val			
	365		370		375
Asp Leu Ala Met	Gly Lys Met Met Glu	Gln Gly Pro Val Leu Ile			
	380		385		390
Ile Thr Phe Gln	Ala Gln Leu Val Met	Val Val Arg Asn Pro Lys			
	395		400		405
Gly Glu Val Val	Glu Gly Asp Pro Asp	Lys Val Leu Arg Met Leu			
	410		415		420
Tyr Val Trp Ala	Leu Cys Arg Asp Gln	Asp Glu Leu Asn Pro Tyr			
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Ala Ala Trp Arg	Leu Leu Asp Ile Ser	Ala Ser Ser Thr Glu Gln			
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Ile Leu					

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Leu	Glu	Lys	Ala	Gln	Arg	Leu	Tyr	Pro	Thr	Pro	Arg	Val	Arg	Ala		35	40	45	
Leu	Ile	Glu	Ser	Leu	Asn	Gln	Lys	Pro	Gln	Thr	Ala	Gly	Asp	Gln		50	55	60	
Pro	Pro	Pro	Thr	Asp	Thr	Thr	His	Ala	Thr	His	Arg	Lys	Ala	Gly		65	70	75	
Gly	Thr	Asp	Ala	Pro	Ser	Ala	Asn	Gly	Glu	Ala	Gly	Gly	Glu	Ser		80	85	90	
Thr	Lys	Gly	Tyr	Thr	Ala	Glu	Gln	Val	Ala	Ala	Val	Lys	Arg	Val		95	100	105	
Lys	Gln	Cys	Lys	Asp	Tyr	Tyr	Glu	Ile	Leu	Gly	Val	Ser	Arg	Gly		110	115	120	
Ala	Ser	Asp	Glu	Asp	Leu	Lys	Lys	Ala	Tyr	Arg	Arg	Leu	Ala	Leu		125	130	135	
Lys	Phe	His	Pro	Asp	Lys	Asn	His	Ala	Pro	Gly	Ala	Thr	Glu	Ala		140	145	150	
Phe	Lys	Ala	Ile	Gly	Thr	Ala	Tyr	Ala	Val	Leu	Ser	Asn	Pro	Glu		155	160	165	
Lys	Arg	Lys	Gln	Tyr	Asp	Gln	Phe	Gly	Asp	Asp	Lys	Ser	Gln	Ala		170	175	180	
Ala	Arg	His	Gly	His	Gly	His	Gly	Asp	Phe	His	Arg	Gly	Phe	Glu		185	190	195	
Ala	Asp	Ile	Ser	Pro	Glu	Asp	Leu	Phe	Asn	Met	Phe	Phe	Gly	Gly		200	205	210	
Gly	Phe	Pro	Ser	Ser	Asn	Val	His	Val	Tyr	Ser	Asn	Gly	Arg	Met		215	220	225	
Arg	Tyr	Thr	Tyr	Gln	Gln	Arg	Gln	Asp	Arg	Arg	Asp	Asn	Gln	Gly		230	235	240	
Asp	Gly	Gly	Leu	Gly	Val	Phe	Val	Gln	Leu	Met	Pro	Ile	Leu	Ile		245	250	255	
Leu	Ile	Leu	Val	Ser	Ala	Leu	Ser	Gln	Leu	Met	Val	Ser	Ser	Pro		260	265	270	
Pro	Tyr	Ser	Leu	Ser	Pro	Arg	Pro	Ser	Val	Gly	His	Ile	His	Arg		275	280	285	
Arg	Val	Thr	Asp	His	Leu	Gly	Val	Val	Tyr	Tyr	Val	Gly	Asp	Thr		290	295	300	
Phe	Ser	Glu	Glu	Tyr	Thr	Gly	Ser	Ser	Leu	Lys	Thr	Val	Glu	Arg		305	310	315	
Asn	Val	Glu	Asp	Asp	Tyr	Ile	Ala	Asn	Leu	Arg	Asn	Asn	Cys	Trp		320	325	330	
Lys	Glu	Lys	Gln	Gln	Lys	Glu	Gly	Leu	Leu	Tyr	Arg	Ala	Arg	Tyr		335	340	345	
Phe	Gly	Asp	Thr	Asp	Met	Tyr	His	Arg	Ala	Gln	Lys	Met	Gly	Thr		350	355	360	
Pro	Ser	Cys	Ser	Arg	Leu	Ser	Glu	Val	Gln	Ala	Ser	Leu	His	Gly		365	370	375	

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 3658451CD1

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Leu	Leu	Ala	Trp	Ser	Ala	Ala	Trp	Glu	Ser	Lys	Gly	Trp	Pro	Leu
				20					25					30
Pro	Phe	Ser	Thr	Ala	Thr	Gln	Arg	Thr	Ala	Gly	Glu	Asp	Cys	Arg
				35					40					45
Ser	Glu	Asp	Pro	Pro	Asp	Glu	Leu	Gly	Pro	Pro	Leu	Ala	Glu	Arg
				50					55					60
Ala	Leu	Arg	Val	Lys	Ala	Val	Lys	Leu	Glu	Lys	Glu	Val	Gln	Asp
				65					70					75
Leu	Thr	Val	Arg	Tyr	Gln	Arg	Ala	Ile	Ala	Asp	Cys	Glu	Asn	Ile
				80					85					90
Arg	Arg	Arg	Thr	Gln	Arg	Cys	Val	Glu	Asp	Ala	Lys	Ile	Phe	Gly
				95					100					105
Ile	Gln	Ser	Phe	Cys	Lys	Asp	Leu	Val	Glu	Val	Ala	Asp	Ile	Leu
				110					115					120
Glu	Lys	Thr	Thr	Glu	Cys	Ile	Ser	Glu	Glu	Ser	Glu	Pro	Glu	Asp
				125					130					135
Gln	Lys	Leu	Thr	Leu	Glu	Lys	Val	Phe	Arg	Gly	Leu	Leu	Leu	Leu
				140					145					150
Glu	Ala	Lys	Leu	Lys	Ser	Val	Phe	Ala	Lys	His	Gly	Leu	Glu	Lys
				155					160					165
Leu	Thr	Pro	Ile	Gly	Asp	Lys	Tyr	Asp	Pro	His	Glu	His	Glu	Leu
				170					175					180
Ile	Cys	His	Val	Pro	Ala	Gly	Val	Gly	Val	Gln	Pro	Gly	Thr	Val
				185					190					195
Ala	Leu	Val	Arg	Gln	Asp	Gly	Tyr	Lys	Leu	His	Gly	Arg	Thr	Ile
				200					205					210
Arg	Leu	Ala	Arg	Val	Glu	Val	Ala	Val	Glu	Ser	Gln	Arg	Arg	Leu
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<213> Homo sapiens

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<223> Incyte ID No: 4217610CD1

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Ser	Asp	Glu	Asp	Ile	Lys	Lys	Ala	Tyr	Arg	Lys	Gln	Ala	Leu	Lys
				20					25					30
Phe	His	Pro	Asp	Lys	Asn	Lys	Ser	Pro	Gln	Ala	Glu	Glu	Lys	Phe
				35					40					45
Lys	Glu	Val	Ala	Glu	Ala	Tyr	Glu	Val	Leu	Ser	Asp	Pro	Lys	Lys
				50					55					60
Arg	Glu	Ile	Tyr	Asp	Gln	Phe	Gly	Glu	Glu	Gly	Leu	Lys	Gly	Gly
				65					70					75
Ala	Gly	Gly	Thr	Asp	Gly	Gln	Gly	Gly	Thr	Phe	Arg	Tyr	Thr	Phe
				80					85					90
His	Gly	Asp	Pro	His	Ala	Thr	Phe	Ala	Ala	Phe	Phe	Gly	Gly	Ser

	95		100		105									
Asn	Pro	Phe	Glu	Ile	Phe	Phe	Gly	Arg	Arg	Met	Gly	Gly	Gly	Arg
	110								115					120
Asp	Ser	Glu	Glu	Met	Glu	Ile	Asp	Gly	Asp	Pro	Phe	Ser	Ala	Phe
	125								130					135
Gly	Phe	Ser	Met	Asn	Gly	Tyr	Pro	Arg	Asp	Arg	Asn	Ser	Val	Gly
	140								145					150
Pro	Ser	Arg	Leu	Lys	Gln	Asp	Pro	Pro	Val	Ile	His	Glu	Leu	Arg
	155								160					165
Val	Ser	Leu	Glu	Glu	Ile	Tyr	Ser	Gly	Cys	Thr	Lys	Arg	Met	Lys
	170								175					180
Ile	Ser	Arg	Lys	Arg	Leu	Asn	Ala	Asp	Gly	Arg	Ser	Tyr	Arg	Ser
	185								190					195
Glu	Asp	Lys	Ile	Leu	Thr	Ile	Glu	Ile	Lys	Lys	Gly	Trp	Lys	Glu
	200								205					210
Gly	Thr	Lys	Ile	Thr	Phe	Pro	Arg	Glu	Gly	Asp	Glu	Thr	Pro	Asn
	215								220					225
Ser	Ile	Pro	Ala	Asp	Ile	Val	Phe	Ile	Ile	Lys	Asp	Lys	Asp	His
	230								235					240
Pro	Lys	Phe	Lys	Arg	Asp	Gly	Ser	Asn	Ile	Ile	Tyr	Thr	Ala	Lys
	245								250					255
Ile	Ser	Leu	Arg	Glu	Ala	Leu	Cys	Gly	Cys	Ser	Ile	Asn	Val	Pro
	260								265					270
Thr	Leu	Asp	Gly	Arg	Asn	Ile	Pro	Met	Ser	Val	Asn	Asp	Ile	Val
	275								280					285
Lys	Pro	Gly	Met	Arg	Arg	Arg	Ile	Ile	Gly	Tyr	Gly	Leu	Pro	Phe
	290								295					300
Pro	Lys	Lys	Ser											

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<223> Incyte ID No: 1977820CD1

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Pro	Leu	Thr	Thr	Glu	Arg	Val	Arg	Thr	Thr	Leu	Ser	Val	Leu	Lys
				20					25					30
Arg	Ile	Val	Thr	Ser	Cys	Tyr	Gly	Pro	Ser	Gly	Arg	Leu	Lys	Gln
				35					40					45
Leu	His	Asn	Gly	Phe	Gly	Gly	Tyr	Val	Cys	Thr	Thr	Ser	Gln	Ser
				50					55					60
Ser	Ala	Leu	Leu	Ser	His	Leu	Leu	Val	Thr	His	Pro	Ile	Leu	Lys
				65					70					75
Ile	Leu	Thr	Ala	Ser	Ile	Gln	Asn	His	Val	Ser	Ser	Phe	Ser	Asp
				80					85					90
Cys	Gly	Leu	Phe	Thr	Ala	Ile	Leu	Cys	Cys	Asn	Leu	Ile	Glu	Asn
				95					100					105
Val	Gln	Arg	Leu	Gly	Leu	Thr	Pro	Thr	Thr	Val	Ile	Arg	Leu	Asn
				110					115					120
Lys	His	Leu	Leu	Ser	Leu	Cys	Ile	Ser	Tyr	Leu	Lys	Ser	Glu	Thr
				125					130					135
Cys	Gly	Cys	Arg	Ile	Pro	Val	Asp	Phe	Ser	Ser	Thr	Gln	Ile	Leu

	140		145		150
Leu Cys Leu Val Arg Ser Ile Leu Thr Ser Lys Pro Ala Cys Met					
	155		160		165
Leu Thr Arg Lys Glu Thr Glu His Val Ser Ala Leu Ile Leu Arg					
	170		175		180
Ala Phe Leu Leu Thr Ile Pro Glu Asn Ala Glu Gly His Ile Ile					
	185		190		195
Leu Gly Lys Ser Leu Ile Val Pro Leu Lys Gly Gln Arg Val Ile					
	200		205		210
Asp Ser Thr Val Leu Pro Gly Ile Leu Ile Glu Met Ser Glu Val					
	215		220		225
Gln Leu Met Arg Leu Leu Pro Ile Lys Lys Ser Thr Ala Leu Lys					
	230		235		240
Val Ala Leu Phe Cys Thr Thr Leu Ser Gly Asp Thr Ser Asp Thr					
	245		250		255
Gly Glu Gly Thr Val Val Val Ser Tyr Gly Val Ser Leu Glu Asn					
	260		265		270
Ala Val Leu Asp Gln Leu Leu Asn Leu Gly Arg Gln Leu Ile Ser					
	275		280		285
Asp His Val Asp Leu Val Leu Cys Gln Lys Val Ile His Pro Ser					
	290		295		300
Leu Lys Gln Phe Leu Asn Met His Arg Ile Ile Ala Ile Asp Arg					
	305		310		315
Ile Gly Val Thr Leu Met Glu Pro Leu Thr Lys Met Thr Gly Thr					
	320		325		330
Gln Pro Ile Gly Ser Leu Gly Ser Ile Cys Pro Asn Ser Tyr Gly					
	335		340		345
Ser Val Lys Asp Val Cys Thr Ala Lys Phe Gly Ser Lys His Phe					
	350		355		360
Phe His Leu Ile Pro Asn Glu Ala Thr Ile Cys Ser Leu Leu Leu					
	365		370		375
Cys Asn Arg Asn Asp Thr Ala Trp Asp Glu Leu Lys Leu Thr Cys					
	380		385		390
Gln Thr Ala Leu His Val Leu Gln Leu Thr Leu Lys Glu Pro Trp					
	395		400		405
Ala Leu Leu Gly Gly Gly Cys Thr Glu Thr His Leu Ala Ala Tyr					
	410		415		420
Ile Arg His Lys Thr His Asn Asp Pro Glu Ser Ile Leu Lys Asp					
	425		430		435
Asp Glu Cys Thr Gln Thr Glu Leu Gln Leu Ile Ala Glu Ala Phe					
	440		445		450
Cys Ser Ala Leu Glu Ser Val Val Gly Ser Leu Glu His Asp Gly					
	455		460		465
Gly Glu Ile Leu Thr Asp Met Lys Tyr Gly His Leu Trp Ser Val					
	470		475		480
Gln Ala Asp Ser Pro Cys Val Ala Asn Trp Pro Asp Leu Leu Ser					
	485		490		495
Gln Cys Gly Cys Gly Leu Tyr Asn Ser Gln Glu Glu Leu Asn Trp					
	500		505		510
Ser Phe Leu Arg Ser Thr Arg Arg Pro Phe Val Pro Gln Ser Cys					
	515		520		525
Leu Pro His Glu Ala Val Gly Ser Ala Ser Asn Leu Thr Leu Asp					
	530		535		540
Cys Leu Thr Ala Lys Leu Ser Gly Leu Gln Val Ala Val Glu Thr					
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Ala Asn Leu Ile Leu Asp Leu Ser Tyr Val Ile Glu Asp Lys Asn					
	560		565		570

PF-0595 USN

<210> 6

<211> 559

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2722589CD1

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Tyr	Ser	Leu	Leu	Asn	Val	Arg	Arg	Glu	Ala	Ser	Ser	Glu	Glu	Leu
				20					25					30
Lys	Ala	Ala	Tyr	Arg	Arg	Leu	Cys	Met	Leu	Tyr	His	Pro	Asp	Lys
				35					40					45
His	Arg	Asp	Pro	Glu	Leu	Lys	Ser	Gln	Ala	Glu	Arg	Leu	Phe	Asn
				50					55					60
Leu	Val	His	Gln	Ala	Tyr	Glu	Val	Leu	Ser	Asp	Pro	Gln	Thr	Arg
				65					70					75
Ala	Ile	Tyr	Asp	Ile	Tyr	Gly	Lys	Arg	Gly	Leu	Glu	Met	Glu	Gly
				80					85					90
Trp	Glu	Val	Val	Glu	Arg	Arg	Arg	Thr	Pro	Ala	Glu	Ile	Arg	Glu
				95					100					105
Glu	Phe	Glu	Arg	Leu	Gln	Arg	Glu	Arg	Glu	Glu	Arg	Arg	Leu	Gln
				110					115					120
Gln	Arg	Thr	Asn	Pro	Lys	Gly	Thr	Ile	Ser	Val	Gly	Val	Asp	Ala
				125					130					135
Thr	Asp	Leu	Phe	Asp	Arg	Tyr	Asp	Glu	Glu	Tyr	Glu	Asp	Val	Ser
				140					145					150
Gly	Ser	Ser	Phe	Pro	Gln	Ile	Glu	Ile	Asn	Lys	Met	His	Ile	Ser
				155					160					165
Gln	Ser	Ile	Glu	Ala	Pro	Leu	Thr	Ala	Thr	Asp	Thr	Ala	Ile	Leu
				170					175					180
Ser	Gly	Ser	Leu	Ser	Thr	Gln	Asn	Gly	Asn	Gly	Gly	Gly	Ser	Ile
				185					190					195
Asn	Phe	Ala	Leu	Arg	Arg	Val	Thr	Ser	Ala	Lys	Gly	Trp	Gly	Glu
				200					205					210
Leu	Glu	Phe	Gly	Ala	Gly	Asp	Leu	Gln	Gly	Pro	Leu	Phe	Gly	Leu
				215					220					225
Lys	Leu	Phe	Arg	Asn	Leu	Thr	Pro	Arg	Cys	Phe	Val	Thr	Thr	Asn
				230					235					240
Cys	Ala	Leu	Gln	Phe	Ser	Ser	Arg	Gly	Ile	Arg	Pro	Gly	Leu	Thr
				245					250					255
Thr	Val	Leu	Ala	Arg	Asn	Leu	Asp	Lys	Asn	Thr	Val	Gly	Tyr	Leu
				260					265					270
Gln	Trp	Arg	Trp	Gly	Ile	Gln	Ser	Ala	Met	Asn	Thr	Ser	Ile	Val
				275					280					285
Arg	Asp	Thr	Lys	Thr	Ser	His	Phe	Thr	Val	Ala	Leu	Gln	Leu	Gly
				290					295					300
Ile	Pro	His	Ser	Phe	Ala	Leu	Ile	Ser	Tyr	Gln	His	Lys	Phe	Gln
				305					310					315
Asp	Asp	Asp	Gln	Thr	Arg	Val	Lys	Gly	Ser	Leu	Lys	Ala	Gly	Phe
				320					325					330
Phe	Gly	Thr	Val	Val	Glu	Tyr	Gly	Ala	Glu	Arg	Lys	Ile	Ser	Arg
				335					340					345
His	Ser	Val	Leu	Gly	Ala	Ala	Val	Ser	Val	Gly	Val	Pro	Gln	Gly
				350					355					360
Val	Ser	Leu	Lys	Val	Lys	Leu	Asn	Arg	Ala	Ser	Gln	Thr	Tyr	Phe

	365		370		375
Phe Pro Ile His	Leu Thr Asp Gln Leu	Leu Pro Ser Ala Met	Phe		
	380		385		390
Tyr Ala Thr Val	Gly Pro Leu Val Val	Tyr Phe Ala Met His	Arg		
	395		400		405
Leu Ile Ile Lys	Pro Tyr Leu Arg Ala	Gln Lys Glu Lys Glu	Leu		
	410		415		420
Glu Lys Gln Arg	Glu Ser Ala Ala Thr	Asp Val Leu Gln Lys	Lys		
	425		430		435
Gln Glu Ala Glu	Ser Ala Val Arg Leu	Met Gln Glu Ser Val	Arg		
	440		445		450
Arg Ile Ile Glu	Ala Glu Glu Ser Arg	Met Gly Leu Ile Ile	Val		
	455		460		465
Asn Ala Trp Tyr	Gly Lys Phe Val Asn	Asp Lys Ser Arg Lys	Ser		
	470		475		480
Glu Lys Val Lys	Val Ile Asp Val Thr	Val Pro Leu Gln Cys	Leu		
	485		490		495
Val Lys Asp Ser	Lys Leu Ile Leu Thr	Glu Ala Ser Lys Ala	Gly		
	500		505		510
Leu Pro Gly Phe	Tyr Asp Pro Cys Val	Gly Glu Glu Lys Asn	Leu		
	515		520		525
Lys Val Leu Tyr	Gln Phe Arg Gly Val	Leu His Gln Val Met	Val		
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Leu Asp Ser Glu	Ala Leu Arg Ile Pro	Lys Gln Ser His Arg	Ile		
	545		550		555
Asp Thr Asp Gly					

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<211> 1880

<212> DNA

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<223> Incyte ID No: 1556139CB1

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<210> 8

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2373576CB1

<400> 8

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1764

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<210> 9

<211> 776

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID N : 3658451CB1

<400> 9

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<210> 10

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4217610CB1

<220>

<221> unsure

<222> 1334, 1359, 1387, 1393, 1396, 1407, 1412-1413, 1418

<223> a, t, c, g, or other

<400> 10

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<210> 11

<211> 2776

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1977820CB1

<400> 11

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<210> 12

<211> 3213

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2722589CB1

<400> 12

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PF-0595 USN

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<210> 13
<211> 215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1556139H1

<220>
<221> unsure
<222> 25, 27
<223> a, t, c, g, or other

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<210> 14
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<220>
<221> unsure
<222> 480, 489, 498, 503, 507, 518, 553, 576, 580
<223> a, t, c, g, or other

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<210> 15
<211> 296
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<213> Homo sapiens

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 <221> unsure
 <222> 5, 46, 69, 73, 113, 126, 248, 257
 <223> a, t, c, g, or other

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<210> 16
 <211> 571
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 865064R1

<220>
 <221> unsure
 <222> 567
 <223> a, t, c, g, or other

<400> 16
 tgggacagac cgggcccctac cggaggcccc agcgactccg gaagagaacg gagtttgccg 60
 gagataagtt caaggaggag aaagtgtttg agccaaacga ggaggccctg ggggtcgtgc 120
 tgcacaagga ctccaagtgg taccagcagt ggaaggactt caaggagaac nacgtgggtg 180
 ttaaccggtt cttcgagatg aagatgaagt atgacgaaag cgacaacggc ttcattccggg 240
 catcccgggc ccttacggac aaggtcaccc acttgctggg gggcctgttc tccaagacag 300
 agatgtcggg ggtgctcacg gagatcctcc ggggtggacc ggcctttgac aaggaccggt 360
 ttctgaaaca gtgcgagAAC gacatcatcc ccaatgtcct ygaggccatg atttctggag 420
 agcttgacat tctcaaagac tgggtgctatg aagctactta cagccagctg gccacccca 480
 tccagcaggc caaggcactg ggtctccagt tccattctcg catcctagac attgacaacg 540
 tcgacctggc catgggcaag atgatgnagc g 571

<210> 17
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1469448F1

<220>
 <221> unsure
 <222> 411, 437, 502, 533, 535, 547
 <223> a, t, c, g, or other

<400> 17
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 cggagatcct ccgggtggac ccggcctttg acaaggaccg gtttctgaaa cagtgcgaga 120
 acgacatcat ccccaatgtc ctggaggcca tgatttctgg agagcttgac attctcaaag 180
 actgggtgcta tgaagctact tacagccagc tggccccacc catccagcag gccaaggcac 240
 tgggtctcca gttccattct cgcatacctag acattgacaa cgtcgacctg gccatgggca 300
 agatgatgga gcagggggccg gtgctgatca tcaccttcca ggcacagctg gtgatgggtg 360

tcaggaaccc caaaggcgag gtggtggagg gtgaccgga caaggtgtgc ngatgctgta 420
 cgtgtgggag ctctgchgag acaggacgag tcaacccta cgcgccctgg cggctcctgg 480
 acatctcggc ctccagcacc gngaaattct cttgaattgt ggtgccggag cangntagcc 540
 ccggtcnggg tatcaggcaa aaa 563

<210> 18
 <211> 329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1576728T1

<400> 18
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 agctgggggg agagcccgca gtctgttcc cagaggtctg gagttgccgc agtgggtgtg 120
 cgggtgcctct gtgcctgatg acccaggccg gggctacctg gctccggcac cacactcaga 180
 gaatctgctc ggtgctggag gccgagatgt ccaggagccg ccaggccgcg taggggttga 240
 gctcgtcctg gtctcggcag agcgcaccaca cgtacagcat ccgcagcacc ttgtccgggt 300
 cacctccaac aactcgcttt ggggttcgg 329

<210> 19
 <211> 215
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1556139H1

<220>
 <221> unsure
 <222> 25, 27
 <223> a, t, c, g, or other

<400> 19
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 atggcggcgg cggccctgcg gagtggctgg tgccgctgtc cacggagatg cctcggcagt 120
 ggaatccaat ttctttccag ccacaaccta ccccatgggt cgacctatca gatgcgcggg 180
 ccgggcggag agctgccact gtccaaatca tattc 215

<210> 20
 <211> 592
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1594241F1

<220>
 <221> unsure
 <222> 480, 489, 498, 503, 507, 518, 553, 576, 580
 <223> a, t, c, g, or other

<400> 20
 aaccggggcg cgccgcgaga aggtcacacg attctccaac atggcggcgg cggccctgcg 60
 gagtggctgg tgccgctgtc cacggagatg cctcggcagt ggaatccaat ttctttccag 120

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ccacaaccta ccccatgggt cgacctatca gatgcgccgg ccggggcggag agctgccact 180
gtccaaatca tattcttctg gaaacagaaa aggctttctg tccggcttgc tagataatgt 240
caaacaagaa ttagcctaaa acaaagaaat gaaagaaagt ataaaaaaat tccgtgacga 300
ggccagaagg ctagaagaat cagacgtgct ccaggaggcc agaaggaaat acaaaaccat 360
cgagtcagaa accgtgcgga cgagcgaggt gctacggaag aagcttgggg agctgacggg 420
caccgtgaag gagagcttca cgaagtcagt aaaagtgatc tcggccggaa aatcaaggan 480
ggcgtggang aagcagcnaa ganggcnaag cagtcggncg agtcgtattc caaaggcggg 540
gagaactggg cangacagcg gctttcagag cctctnccan ggggtggaat cc 592
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<210> 21

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3816577H1

<220>

<221> unsure

<222> 5, 46, 59, 73, 113, 126, 248, 257

<223> a, t, c, g, or other

<400> 21

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aaccgtgcng acngagccga ggtgctacgg aagaagcttg gggagctgac ggnccaccgtg 120
aagganagtc ttcacgaagt cagtaaaagt gatctcggcc ggaaaatcaa ggagggcgtg 180
gaggaagcag ccaagacggc caagcagtcg gccgagtcgg tatccaaagg cggggagag 240
ctgggcanga cagcggncct cagagccctc tcccaggggg tggagtcagt gaagaa 296
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<210> 22

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 865064R1

<220>

<221> unsure

<222> 567

<223> a, t, c, g, or other

<400> 22

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gagataagtt caaggaggag aaagtgtttg agccaaacga ggaggccctg ggggtcgtgc 120
tgcacaagga ctccaagtgg taccagcagt ggaaggactt caaggagAAC aacgtggtgt 180
ttaaccggtt cttcgagatg aagatgaagt atgacgaaag cgacaacgag ttcattccggg 240
catcccgggc ccttacggac aaggtcaccg acttgctggg gggcctgttc tccaagacag 300
agatgtcgga ggtgctcacg gagatcctcc ggggtggacc ggcctttgac aaggaccggt 360
ttctgaaaca gtgcgagAAC gacatcatcc ccaatgtcct ggaggccatg atttctggag 420
agcttgacat tctcaaagac tgggtgctatg aagctactta cagccagctg gccacccca 480
tccagcaggc caaggcactg ggtctccagt tccattctcg catcctagac attgacaacg 540
tcgacctggc catgggcaag atgatgnagc g 571
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<210> 23

<211> 563

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1469448F1

<220>

<221> unsure

<222> 411, 437, 502, 533, 535, 547

<223> a, t, c, g, or other

<400> 23

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cggagatcct ccgggtggac ccggcctttg acaaggaccg gtttctgaaa cagtgcgaga 120
acgacatcat cccaatgtc ctggaggcca tgatttctgg agagcttgac attctcaaag 180
actggtgcta tgaagctact tacagccagc tggcccaccc catccagcag gccaaggcac 240
tgggtctcca gttccattct cgcattctag acattgacaa cgtcgacctg gccatgggca 300
agatgatgga gcagggggccg gtgctgatca tcaccttcca ggcacagctg gtgatgggtg 360
tcaggaaccc caaaggcgag gtggtggagg gtgacccgga caaggtgtgc ngatgctgta 420
cgtgtggggc ctctgcnag acaggacgag tcaaccctta cgcggcctgg cggctcctgg 480
acatctcggc ctccagcacc gngaaattct cttgaattgt ggtgccggag cangntagcc 540
ccggctnngg tatcaggcaa aaa                                     563

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<210> 24

<211> 329

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1576728T1

<400> 24

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gcacccgcaa cagcccggtt tccctccccg ggccagctgg tcttgagcc gtcctggcag 60
agctgggggc agagcccgca gtcttggtcc cagaggtctg gagttgccgc agtgggtgtt 120
cgggtgcctct gtgcctgatg acccaggccg gggctacctg gtcgccgcac cacactcaga 180
gaatctgctc ggtgctggag gccgagatgt ccaggagccg ccaggccgcg taggggttga 240
gctcgtcctg gtctcggcag agcgcaccaca cgtacagcat ccgcagcacc ttgtccgggt 300
cacctccaac aactcgcttt ggggttcgg                                     329

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<210> 25

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g2351410

<400> 25

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Met Ala Ala Ala Arg Leu Arg Gly Gly Trp Cys Arg Cys Pro Arg
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Arg Cys Leu Gly Ser Gly Ile Gln Phe Leu Ser Ser His Asn Leu
              20              25              30
Pro His Gly Ser Ser Tyr Gln Ile Ser Arg Pro Gly Arg Glu Leu
              35              40              45
Thr Leu Thr Lys Ser Tyr Ser Ser Gly Ser Arg Lys Gly Phe Leu
              50              55              60
Ser Gly Leu Leu Asp Asn Ile Lys Gln Glu Leu Ala Lys Asn Lys

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	65		70		75
Glu Met Lys Glu Ser Ile Lys Lys Phe Arg Asp Glu Ala Lys Lys					
	80		85		90
Leu Glu Glu Ser Asp Ala Leu Gln Glu Ala Arg Arg Lys Tyr Lys					
	95		100		105
Ser Ile Glu Ser Glu Thr Val Arg Thr Ser Glu Ala Ile Lys Lys					
	110		115		120
Lys Leu Gly Glu Leu Thr Gly Thr Val Lys Glu Ser Leu Asp Glu					
	125		130		135
Val Ser Lys Ser Asp Leu Gly Arg Lys Ile Lys Glu Gly Val Glu					
	140		145		150
Glu Ala Ala Arg Thr Ala Lys Gln Ser Ala Glu Ser Val Ser Lys					
	155		160		165
Ser Gly Glu Lys Leu Gly Lys Thr Ala Ala Phe Lys Ala Ile Ser					
	170		175		180
Gln Gly Val Glu Ser Val Lys Lys Glu Leu Asp Glu Ser Val Leu					
	185		190		195
Gly Gln Thr Gly Pro Tyr Arg Arg Pro Glu Arg Leu Arg Lys Arg					
	200		205		210
Thr Glu Phe Ala Gly Ala Lys Phe Lys Glu Ser Lys Val Phe Glu					
	215		220		225
Ala Asn Glu Glu Ala Leu Gly Val Val Leu His Lys Asp Ser Lys					
	230		235		240
Trp Tyr Gln Gln Trp Lys Asp Phe Lys Asp Asn Asn Val Val Phe					
	245		250		255
Asn Arg Phe Phe Glu Met Lys Met Lys Tyr Asp Glu Ser Asp Asn					
	260		265		270
Val Leu Ile Arg Ala Ser Arg Ala Leu Thr Asp Lys Val Thr Asp					
	275		280		285
Leu Leu Gly Gly Leu Phe Ser Lys Thr Glu Met Ser Glu Val Leu					
	290		295		300
Thr Glu Ile Leu Arg Val Asp Pro Thr Phe Asp Lys Asp His Phe					
	305		310		315
Leu His Gln Cys Glu Thr Asp Ile Ile Pro Asn Ile Leu Glu Ala					
	320		325		330
Met Ile Ser Gly Glu Leu Asp Ile Leu Lys Asp Trp Cys Tyr Glu					
	335		340		345
Ala Thr Tyr Ser Gln Leu Ala His Pro Ile Gln Gln Ala Lys Ala					
	350		355		360
Leu Gly Phe Gln Phe His Ser Arg Ile Leu Asp Ile Ser Asn Val					
	365		370		375
Asp Leu Ala Met Gly Lys Met Met Glu Gln Gly Pro Val Leu Ile					
	380		385		390
Val Thr Phe Gln Ala Gln Val Val Met Val Ile Lys Asn Ser Lys					
	395		400		405
Gly Glu Val Tyr Asp Gly Asp Pro Asp Lys Val Gln Arg Met Leu					
	410		415		420
Tyr Val Trp Ala Leu Cys Arg Asp Gln Glu Glu Leu Asn Pro Tyr					
	425		430		435
Ala Ala Trp Arg Leu Leu Asp Ile Ser Ala Ser Ser Thr Glu Gln					
	440		445		450
Ile Leu					

<210> 26

<211> 223

<212> PRT

<213> Homo sapiens

PF-0595 USN

<220>

<221> misc_feature

<223> GenBank ID No: g3411072

<400> 26

Ala	Ala	Arg	Ser	Leu	Trp	Ala	Val	Gln	Arg	Leu	Gln	Arg	Leu	Leu
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Ala	Ser	Gly	Ala	Met	Ser	Glu	Ser	Arg	Gly	Trp	Leu	His	Pro	Phe
				20					25					30
Ser	Thr	Ala	Thr	Gln	Arg	Thr	Ala	Gly	Glu	Asp	Cys	Ser	Ser	Glu
				35					40					45
Asp	Pro	Pro	Asp	Gly	Leu	Gly	Pro	Ser	Leu	Ala	Glu	Gln	Ala	Leu
				50					55					60
Arg	Leu	Lys	Ala	Val	Lys	Leu	Glu	Lys	Glu	Val	Gln	Asp	Leu	Thr
				65					70					75
Leu	Arg	Tyr	Gln	Arg	Ala	Val	Ala	Asp	Cys	Glu	Asn	Ile	Arg	Arg
				80					85					90
Arg	Thr	Gln	Arg	Cys	Val	Glu	Asp	Ala	Lys	Ile	Phe	Gly	Ile	Gln
				95					100					105
Ser	Phe	Cys	Lys	Asp	Leu	Val	Glu	Val	Ala	Asp	Ile	Leu	Glu	Lys
				110					115					120
Thr	Ala	Lys	Cys	Cys	Ser	Glu	Gly	Ala	Glu	Pro	Glu	Asp	His	Arg
				125					130					135
Arg	Thr	Leu	Glu	Lys	Val	Phe	Gln	Gly	Leu	Ser	Leu	Leu	Glu	Ala
				140					145					150
Arg	Leu	Lys	Ser	Val	Phe	Thr	Lys	His	Gly	Leu	Glu	Lys	Met	Thr
				155					160					165
Pro	Ile	Gly	Asp	Lys	Tyr	Asp	Pro	His	Glu	His	Glu	Leu	Ile	Cys
				170					175					180
His	Met	Pro	Ala	Gly	Val	Gly	Val	Gln	Pro	Gly	Thr	Val	Ala	Leu
				185					190					195
Val	Arg	Gln	Asp	Gly	Tyr	Lys	Leu	His	Gly	Arg	Thr	Ile	Arg	Leu
				200					205					210
Ala	Gln	Val	Glu	Val	Ala	Val	Glu	Ser	Gln	Arg	Arg	Leu		
				215					220					

<210> 27

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g1816452

<400> 27

Met	Gly	Lys	Asp	Tyr	Tyr	Gln	Thr	Leu	Gly	Leu	Ala	Arg	Gly	Ala
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Ser	Asp	Glu	Glu	Ile	Lys	Arg	Ala	Tyr	Arg	Arg	Gln	Ala	Leu	Arg
				20					25					30
Tyr	His	Pro	Asp	Lys	Asn	Lys	Glu	Pro	Gly	Ala	Glu	Glu	Lys	Phe
				35					40					45
Lys	Glu	Ile	Ala	Glu	Ala	Tyr	Asp	Val	Leu	Ser	Asp	Pro	Arg	Lys
				50					55					60
Arg	Glu	Ile	Phe	Asp	Arg	Tyr	Gly	Glu	Glu	Gly	Leu	Lys	Gly	Ser
				65					70					75
Gly	Pro	Ser	Gly	Gly	Ser	Gly	Gly	Gly	Ala	Asn	Gly	Thr	Ser	Phe
				80					85					90
Ser	Tyr	Thr	Phe	His	Gly	Asp	Pro	His	Ala	Met	Phe	Ala	Glu	Phe

	95	100	105
Phe Gly Gly Arg Asn Pro Phe Asp Thr	Phe Phe Gly Gln Arg Asn		
110	115	120	
Gly Glu Glu Gly Met Asp Ile Asp Asp	Pro Phe Ser Gly Phe Pro		
125	130	135	
Met Gly Met Gly Gly Phe Thr Asn Val	Asn Phe Gly Arg Ser Arg		
140	145	150	
Ser Ala Gln Glu Pro Ala Arg Lys Lys	Gln Asp Pro Pro Val Thr		
155	160	165	
His Asp Leu Arg Val Ser Leu Glu Glu	Ile Tyr Ser Gly Cys Thr		
170	175	180	
Lys Lys Met Lys Ile Ser His Lys Arg	Leu Asn Pro Asp Gly Lys		
185	190	195	
Ser Ile Arg Asn Glu Asp Lys Ile Leu	Thr Ile Glu Val Lys Lys		
200	205	210	
Gly Trp Lys Glu Gly Thr Lys Ile Thr	Phe Pro Lys Glu Gly Asp		
215	220	225	
Gln Thr Ser Asn Asn Ile Pro Ala Asp	Ile Val Phe Val Leu Lys		
230	235	240	
Asp Lys Pro His Asn Ile Phe Lys Arg	Asp Gly Ser Asp Val Ile		
245	250	255	
Tyr Pro Ala Arg Ile Ser Leu Arg Glu	Ala Leu Cys Gly Cys Thr		
260	265	270	
Val Asn Val Pro Thr Leu Asp Gly Arg	Thr Ile Pro Val Val Phe		
275	280	285	
Lys Asp Val Ile Arg Pro Gly Met Arg	Arg Lys Val Pro Gly Glu		
290	295	300	
Gly Leu Pro Leu Pro Lys Thr Pro Glu	Lys Arg Gly Asp Leu Ile		
305	310	315	
Ile Glu Phe Glu Val Ile Phe Pro Glu	Arg Ile Pro Gln Thr Ser		
320	325	330	
Arg Thr Val Leu Glu Gln Val Leu Pro	Ile		
335	340		